INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP03/04534

A. CLAS Int.	SIFICATION OF SUBJECT MATTER .Cl ⁷ F16L11/04, B32B1/08, B32B	25/04	
According	to International Patent Classification (IPC) or to both r	national classification and IPC	
B. FIELD	OS SEARCHED		
Minimum d Int.	documentation searched (classification system followed Cl ⁷ F16L11/04, B32B1/08, B32B	by classification symbols) 25/04	
Jits	tion searched other than minimum documentation to the transport of transport of the transport of tr	Toroku Jitsuyo Shinan Koh	o 1994–2003
Electronic o	data base consulted during the international search (nar	ne of data base and, where practicable, sea	rch terms used)
C. DOCU	MENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where a	ppropriate, of the relevant passages	Relevant to claim No.
X Y	JP 2001-193659 A (Kabushiki 17 July, 2001 (17.07.01), Column 3, line 50 to column (Family: none)		1 2-10
Y	JP 2-36365 B (Daikin Industr 16 August, 1990 (16.08.90), Column 3, lines 5 to 33 (Family: none)	ries, Ltd.),	1-10
Y	WO 01/65161 A1 (TOYODA GOSEI CO., LTD.), 07 September, 2001 (07.09.01), Page 11, lines 21 to 29 & EP 1260747 A1		2,3
	·		
× Furthe	er documents are listed in the continuation of Box C.	See patent family annex.	
*Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance earlier document but published on or after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot considered novel or cannot be considered to involve an inventive step when the document is taken alone document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed Date of the actual completion of the international search 14 July, 2003 (14.07.03) "It is document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention cannot considered novel or cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family Date of mailing of the international search report 29 July, 2003 (29.07.03)		ne application but cited to carlying the invention cannot be red to involve an inventive claimed invention cannot be when the document is documents, such skilled in the art armily	
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Japai	nese Patent Office		
Facsimile No.		Telephone No.	

INTERNATIONAL SEARCH REPORT

International application No. 2007

ategory*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
A	JP 9-66570 A (Nippon Baruka Kabushiki Kaisha), 11 March, 1997 (11.03.97), Column 4, lines 34 to 45 (Family: none)	Relevant to claim No.